

Amendment
Serial No. 10/663,661
Attorney Docket No. 031163

AMENDMENTS TO THE SPECIFICATION

Please amend the specification as follows:

Amend the paragraph beginning on page 5, line 16 as follows:

The ground pattern 23a includes two portions (hereinafter referred to as portions [[A]] Y) and a portion [[B]] Z on the transmission line substrate 21. The portions [[A]] Y run in parallel with the signal line 22. The portion [[B]] Z connects two ends of the portions [[A]] Y and runs below the metal wire 31 bonded to the signal line 22 so as to cross the signal line 22. The portion [[B]] Z on the signal transmission substrate 21 is located between the signal line 22 and the component 10.

Amend the paragraph beginning on page 5, line 25 as follows:

The parallel portions [[A]] Y of the ground pattern 23a are of an ordinary coplanar type ground patterns. The portion [[B]] Z has a unique structure in the present embodiment. The portion [[B]] Z of the ground pattern 23a forms an electric capacitance C2 between the portion [[B]] Z and the metal wire 31 that extends from the signal line 22, as shown in Fig. 2B, which is a cross-sectional view taken along the line A-A' shown in Fig. 2A.

Amendment
Serial No. 10/663,661
Attorney Docket No. 031163

Amend the paragraph beginning on page 6, line 6 as follows:

The portion [[B]] Z of the ground pattern 23a also functions to reduce influence over the signal line 22 caused by unnecessary radiation from the pads 11 that are not connected to the signal line 22.

Amend the paragraph beginning on page 6, line 10 as follows:

The portions [[A]] Y and [[B]] Z of the ground pattern 23a make a right angle and are integrally formed in one piece so as to have a horseshoe shape. The ground pattern 23a does not need a particular process, and does not cause a potential difference between the parallel ground portions [[A]] Y. Since the portions [[A]] Y are at an identical potential, there is no interference and no impedance mismatch that may be caused if there is a potential difference therebetween.

Amend the paragraph beginning on page 6, line 30 as follows:

The portions [[A]] Y and [[B]] Z of the ground pattern 23a in Fig. 2A may be separated from each other. In this case, the separate portions [[A]] Y and [[B]] Z should be connected to the frame 30 by the through holes 24 respectively provided for each portion. The capacitance C2 thus formed is designed to have a value that makes the composite capacitance C1+C2 equal to the capacitance Cd of the transmission line 20a. It is therefore possible to improve the impedance matching between the interface and the transmission line 20a and to reduce influence over the signal line 22 that can be caused by unnecessary radiation from the pads 11 that are not connected to the signal line 22.

Amendment
Serial No. 10/663,661
Attorney Docket No. 031163

Amend the paragraph beginning on page 7, line 6 as follows:

The portions [[A]] Y and [[B]] Z may have yet another arrangement in which only one of the two portions [[A]] Y and [[B]] Z makes a right angle so that the ground pattern 23a can be integrally formed so as to have an L shape. The capacitance C2 thus formed is also designed to have a value that makes the composite capacitance C1+C2 equal to the capacitance Cd of the transmission line. It is therefore possible to improve the impedance matching between the interface and the transmission line and to reduce influence over the signal line 22 that can be caused by unnecessary radiation from the pads 11 that are not connected to the signal line 22.